## Approved For Release 2002/07/15: CIA-RDP80-00810A001100150002-1 CLASSIFICATION SECRET 25X1A CENTRAL INTELLIGENCE AGENCY REPORT NO. INFORMATION REPORT CD NO. COUNTRY East Germany DATE DISTR. w 1953 SUBJECT Schlieren Research on Combustion and Flow Process NO. OF PAGES 1 PLACE NO. OF ENCLS. **ACQUIRED** (LISTED BELOW DATE OF SUPPLEMENT TO iNFO. REPORT NO. 25X1A

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## THIS IS UNEVALUATED INFORMATION

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- 1. In early rebruary 1953 the Berliner Technisches Buero of SAG Transmasch obtained a large Schlieren device from VAB Carl Deiss, Jena. There are now five Schlieren devices at BTB. A sixth is expected in Barch 1953.
- 2. All Schlieren devices so far drawn by BTB from Zeiss have remained it BTB. They are scheduled to be used there.
- The Schlieren devices at BTB are to be used in the study of combustion processes and of flow processes. Study of these processes carried out so far has not been on a high level, mainly because of the imadequacy of testing equipment. Combustion processes have been investigated with the aid of single cylinder test stands (Einzylinderpruefbock) with homosil glass windows built into the cylinder head; also with a combustion bomb provided with windows of homosil glass. The glass was imported from test Germany via lest Berlin. For the investigation of flow processes, parter glass cylinders have been used with little success.
- 4. Cameras taking as many as 80,000 pictures per second have been used to record the processes studied in the above-mentioned testing equipment with the aid of Schlieren devices—BTB has now seven such cameras, of Vestern ALC type. Two were bought in 1950, the rest in 1951.
- To improve the present unsatisfactory status of Johliumen research, BTB is negotiating with the Schott firm in Jena for the delivery of better all-glass testing equipment. BTB expects to obtain from that firm all-glass cylinders to study flow processes in the near future. Schott has also agreed to construct an all-glass combustion bomb; so for the company has been unable to obtain the special glass needed.

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